

HDC-2500

3G double-speed multi format HD system camera



Overview

3G 1080/50P transmission as standard

The HDC-2500 system camera, part of the HDC-2500 Series, is the successor to the HDC-1500R Series. The top-of-the-range HDC-2500 incorporates Sony's advanced technologies for studio cameras. A newly developed 2/3-inch CCD and the new Digital Signal Processing (DSP) with 16 bit A/D converter provides amazing picture quality with very few noise and high dynamic range.

Extra functions and enhanced body design

The HDC-2500 provides extra functions, as well as a body designed for more robustness and operational efficiency. The HDC-2500 also provides more flexibility on transmission by its side panel that can be easily replaced to fit HD Wireless (3rd Party) or Triax transmission (availability TBC) systems.

3G capable and double speed

The HDC-2500 is 3G and has multi-format capability, from 1080/100i (double speed) to 1080/50P, as well as a wide range of other formats including 1080/50i, 1080/25P and 1080/24P.

Features

Newly developed CCD and DSP

The CCD and DSP provides incomparable picture quality due to the new 2/3-inch CCD & 16bit A/D converter, improved S/N Ratio, better low light and highlights handling. This enables more creative capabilities from variety shows to DMC productions and more realistic rendering of sport events.

1080/50P and 3G single link

The HDC-2500 offers 3G capability and Beyond 1080/50P format using the extra bandwidth: RGB 12bit output for creative shootings, 3D Transmission on one cable, extra fibre length up to 4km, double speed acquisition, gigabit Ethernet Trunk line, and more.

High reliability and operational efficiency

The HDC-2500 has been designed to be more robust than ever for all kind of Outside Broadcasting shooting conditions. Its new carbon fibre body provides a more solid camera body for less weight and reduced environmental footprint.

Compatibility with HDC-1500R Series accessories

As the HDC-2500 is fully compatible with HDC-1500R Series cameras, it inherits their very wide choice of peripherals such as viewfinders (HDVF), Remote Control Panels (RCP) and Sony's unique Large Lens Adapters (HDLA) system.

Specifications

General	
Power requirement	240 V AC, 1.4 A (max.), 180 V DC, 1.0 A (max.), 12 V DC, 7 A (max.)
Operating temperature	-20°C to +45°C (-4°F to +113°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Mass	4.5 kg (9 lb 15 oz)
Camera	
Pickup device	3-chip 2/3-inch type Progressive CCD
Effective picture elements (H x V)	1920 x 1080
Signal format	1080/50i, 59.94i, 23.98p, 24p, 25p,29.97p 1080/50p, 59.94p, 720/50p, 59.94p, 1080/100i, 119.88i, 720/100p,119.88p
Spectrum system	F1.4 prism system
Lens mount	Sony bayonet mount
Built-in filters CC	A: CROSS, B: 3200K, C: 4300K, D: 6300K, E: 8000K
Sensitivity (at 2000 lx, 3200K, 89.9% reflectance)	F11 (1080/50i), F10 (1080/59.94i)
Built-in filters ND	1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND
Signal-to-noise ratio (1080i, typical)	-60 dB/-64 dB (w/NS max.)
Horizontal resolution (1080i)	1000 TV lines (at center)
Shutter speed selection	1/60, 1/125, 1/250, 1/500, 1/1000,1/2000 sec (50i) 1/100, 1/125, 1/250, 1/500, 1/1000,1/2000 sec (59.94i) 1/32, 1/48, 1/96, 1/100, 1/125,1/250, 1/500, 1/1000, 1/2000 sec (23.98p/24p) 1/33, 1/50, 1/100, 1/125, 1/250, 1/500,1/1000, 1/2000 sec (25p) 1/40, 1/60, 1/100, 1/120, 1/125, 1/250,1/500, 1/1000, 1/2000 sec (29.97p) 1/60, 1/125, 1/250, 1/500, 1/1000,1/2000 sec (50p) 1/100, 1/125, 1/250, 1/500, 1/1000,1/2000 sec (59.94p)
Modulation depth (1080i, typical)	Y: 50% at 27.5 MHz (800 TV lines with typical lens), Pb/Pr: 80% at 12 MHz

Input/output connectors

Audio input (CH1)	XLR-3-pin (female) (x1), mic or line selectable
Audio input (CH2)	XLR-3-pin (female) (x1), AES/EBU or mic or line selectable
Mic 1 input	XLR-3-pin (female) (x1)
Return control input	6-pin (x1)
Prompter output/Genlock input/Return input	BNC (x1), 1.0 Vp-p, 75 Ω
Prompter	BNC (x1), 1.0 Vp-p, 75 Ω
DC input	XLR-4-pin (x1), 10.5 to 17 V DC
DC output	4-pin (x1), 10.5 to 17 V DC, 0.5 A (max.), 2-pin (x1), 10.5 to 17 V DC, 2.5 A (max.)
Test output	BNC (x1), 1.0 Vp-p, 75 Ω
SDI 1 output (with embedded audio)	BNC (x1) 3G-SDI, HD-SDI
SDI 2 output	BNC (x1) HD-SDI
SDI-MONI	BNC (x1) HD-SDI or SD-SDI selectable
Earphone output	Stereo minijack (1)
CCU	Electro-optical connector (x1)
Tracker	10-pin (x1)
Crane	12-pin (x1)
Intercom 1	XLR-5-pin (female) (x1)
Intercom 2	XLR-5-pin (female) (x1)
Remote	8-pin (x1)
Lens	12-pin (x1)
Viewfinder	20-pin (x1)

Supplied accessories

Supplied accessories	Operation manual (1), Cable clamp belt (1 set), Camera number label (1), Screws (+B3x8) (2)
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Related products



PVM-A250
25-inch TRIMASTER EL™
OLED high grade picture
monitor



BVM-F250A
24.5-inch TRIMASTER EL™
OLED reference monitor with
wide viewing angle



HDCU-2500
Half-rack-size Camera Control
Unit for HDC Series cameras



PVM-A250 v2.0
25-inch TRIMASTER EL™
OLED high grade picture
monitor



HKCU-SM100
CCU extension adaptor



BVM-F170A
16.5-inch TRIMASTER EL™
OLED reference monitor with
wide viewing angle



HDVF-EL30
OLED 0.7-inch colour Full HD
viewfinder with 3.5-inch sub-
LCD



HDVF-EL20
OLED 0.7-inch colour HD
viewfinder



HDCU-3100
IP enabled next generation
Camera Control Unit



PVM-A170 v2.0
17-inch TRIMASTER EL™ OLED
high grade picture monitor



HZCU-SNMP50
SNMP Agent license for HDCU-
3100 camera control unit.



HZCU-CNFG50
Ember+ protocol license for
HDCU-3100 camera control
unit



RCP-3100
Joystick type of remote control
panel for HDC/HSC/HXC series
cameras.
5 units in 19-
inch EIA rack.



PVM-A170
17-inch TRIMASTER EL™ OLED
high grade picture monitor



HDC-P1
Three 2/3-inch Power HAD FX
CCD sensors full HD compact
system camera with HD-SDI
output

Gallery



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